

Supplementary Data

As shown in Figure 1, most countries have a large proportion of missing weekly reports from January 2012 to October 2018. In particular, the timing of the missing reports in Tunisia coincides with the periods in between flu seasons. Although Nigeria and the DRC have some of the smallest proportions of missing reports, the volumes of the weekly NPS reported in each country decline over time. Only Algeria, Cameroon, Côte d'Ivoire, Ghana, Madagascar, Mozambique, Morocco, Niger, Senegal, South Africa, and Zambia have steady volumes of reported NPS as well as a small proportion of missing weekly reports. Furthermore, each of these countries displays yearly seasonality except for Cameroon, Côte d'Ivoire, Ghana, Mozambique, and Zambia.

Figure 1. Historical Influenza Activity Data. Number of processed specimens reported from January 8, 2012 to October 7, 2018 for each country. Countries ordered by number of missing weekly reports. Missing data are shown in gray. CAR refers to the Central African Republic, Congo refers to the Republic of the Congo, and DRC refers to the Democratic Republic of the Congo.

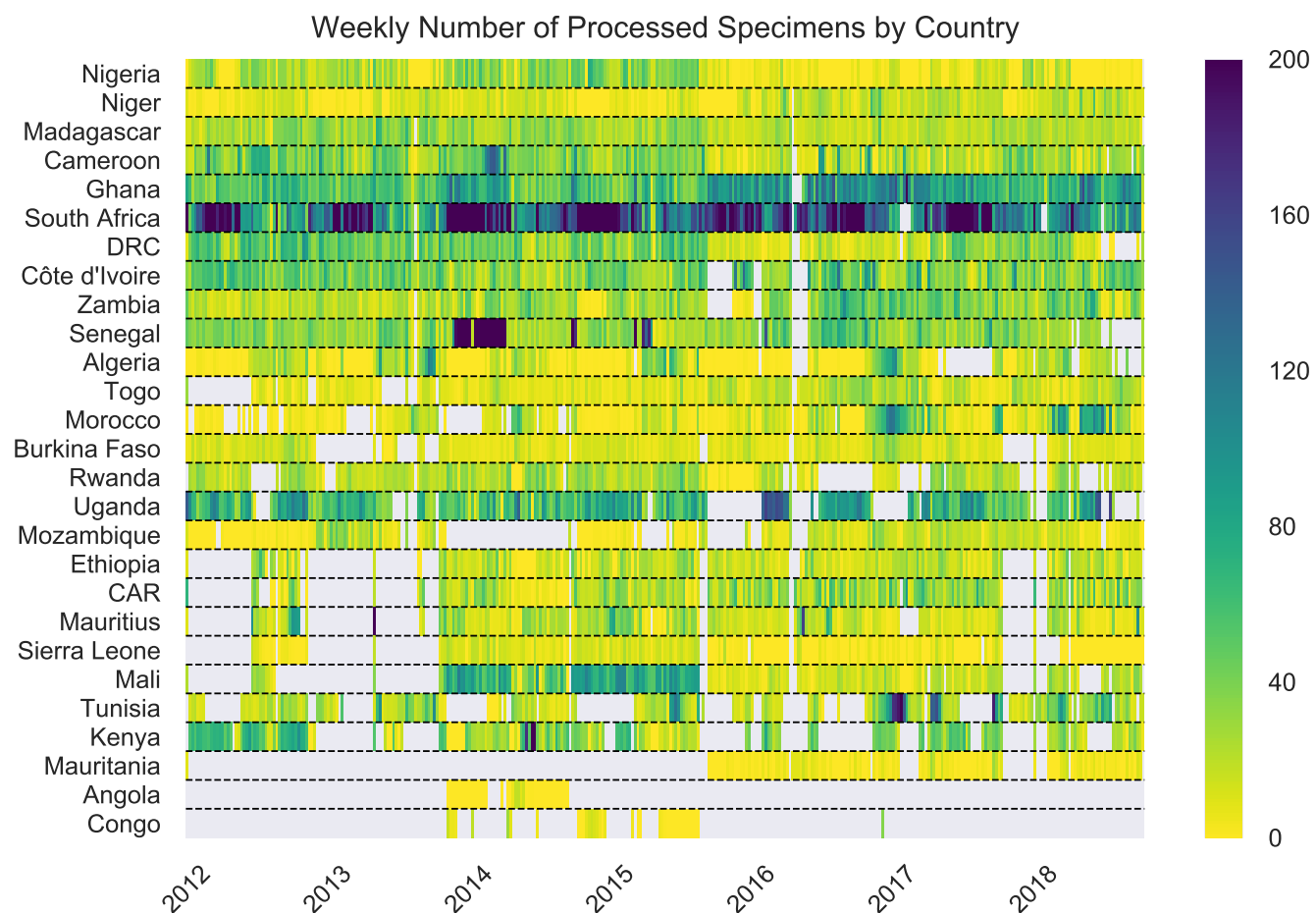


Figure 2. Partial autocorrelograms for South Africa, Algeria, Morocco, and Ghana generated using the confirmed case ratio from the initial training period from January 8, 2012 to January 5, 2014.

